

**Commonwealth of Kentucky
Natural Resources and Environmental Protection Cabinet
Department for Environmental Protection
Division for Air Quality
803 Schenkel Lane
Frankfort, Kentucky 40601
(502) 573-3382**

**Title V
AIR QUALITY PERMIT
Issued under 401 KAR 52:020**

Permittee Name: Griffin Industries, Inc.
Mailing Address: 4221 Alexandria Pike, Cold Spring, Kentucky 41076

Source Name: Griffin Industries, Inc.
Mailing Address: 4221 Alexandria Pike, Cold Spring, KY 41076

Source Location: 1176 Bryan Griffin Road, Butler, KY 41006
Permit Number: V-02-033
Log Number: 50291
Review Type: Synthetic Minor, Title V
Source ID #: 21-191-00007

Regional Office Florence
County: Pendleton

Application
Complete Date: February 12, 1998
Issuance Date:
Expiration Date:

**John S. Lyons, Director
Division for Air Quality**

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SECTION A - PERMIT AUTHORIZATION

Pursuant to a duly submitted application the Kentucky Division for Air Quality hereby authorizes the operation of the equipment described herein in accordance with the terms and conditions of this permit. This permit has been issued under the provisions of Kentucky Revised Statutes Chapter 224 and regulations promulgated pursuant thereto.

The permittee shall not construct, reconstruct, or modify any affected facilities without first having submitted a complete application and receiving a permit for the planned activity from the permitting authority, except as provided in this permit or in 401 KAR 52:020, Title V Permits.

Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by this Cabinet or any other federal, state, or local agency.

SECTION B - AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS**Emissions Unit: 01 and 02 (Emission Point 01 and 02) Indirect Heat Exchangers****Description:**

Two 800 HP Cleaver Brooks Horizontally Opposed Fired
Fuel: #6 fuel oil, “on spec” used oil, and landfill gas
Maximum continuous rating: 33.5 mmBTU/Hour each
Construction commenced: 1973

APPLICABLE REGULATIONS:

Regulation 401 KAR 59:015, New indirect heat exchangers, applicable to an emissions unit with a capacity of less than 250 mmBTU/hour which commenced on or after April 9, 1972.

Regulation 60:005 incorporating by reference 40 CFR 60, Subpart WWW, Standards or performance for municipal solid waste landfills.

Regulations 40 CFR 279 and 40 CFR 761

Voluntary permit limits to preclude the applicability of Regulation 401 KAR 51:017. Sourcewide emissions of Sulfur Dioxide shall not exceed 225 tons per year for any consecutive 12 month period.

Voluntary permit limits to preclude the applicability of Regulation 401 KAR 50:012. Sourcewide emissions of Volatile Organic Compounds shall not exceed 90 tons per year for any consecutive 12 month period.

1. Operating Limitations:

To preclude the applicability of 401 KAR 41:017, #6 fuel oil consumption of the unit shall not exceed 537,500 gallons per year on a twelve-month rolling total.

Sulfur content of the #6 fuel oil shall not exceed 0.5 percent by weight.

Pursuant to Regulations 40 CFR 279 and 40 CFR 761, all “on spec” waste oil burned must meet the following conditions:

ON-SPEC USED OIL SPECIFICATIONS	
Constituent/Property	Allowable Level
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total halogens	1,000 ppm maximum
Flash Point	100 °F minimum

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

NOTE: (1) *On-specification used oil* maximum concentration of PCBs shall be less than 50 ppm.

NOTE: (2) *On-specification used oil* containing a PCB concentration greater than or equal to 2 ppm shall not be burned during startup or shutdown period.

Pursuant to Regulation 40 CFR 60, Subpart WWW:

- a) The owner or operator of the combustion device who uses or purchases landfill gas for fuel in a combustion device shall use the gas only as a fuel, and venting of treated landfill gas to the ambient air is not allowed.

2. Emission Limitations:

- a) Pursuant to Regulation 401 KAR 59:015, Section 4(1)(c), particulate emissions shall not exceed 0.358 lb/MMBTU based on a three-hour-average. The permittee may assure compliance with the particulate allowable by calculating emissions using the following formula:

Combusting # 6 fuel oil: $[0.01 \text{ lb/gallon (AP-42 Table 1.3-1)} \div \# 6 \text{ fuel oil heating value in mmBTU/gallon}]$

Combusting "on spec" waste oil: $[0.064 \text{ lb/gallon (AP-42 Table 1.11-1)} \div \text{"on spec" waste oil heating value in mmBTU/gallon}]$

Combusting landfill gas: $[8.2 \text{ lb/mmcf} \div \text{the landfill gas heating value in mmBTU/mmcf}]$.

- b) Pursuant to Regulation 401 KAR 59:015, Section 4(2), emissions shall not exceed 20% opacity based on a six minute average, except that a maximum of 40% opacity, based on a six minute average, shall be permissible for not more than 6 consecutive minutes in any consecutive 60 minutes during cleaning the fire-box or blowing soot.
- c) Pursuant to Regulation 401 KAR 59:015, Section 5(1)(c), sulfur dioxide emissions shall not exceed 1.37 lb/MMBTU based on a twenty-four-hour-average. The permittee may assure compliance with the sulfur dioxide allowable by calculating emissions using the following formulas:

Combusting # 6 fuel oil: $[0.157 * S(\text{Weight \% of sulfur}) \text{ lb/gallon (AP-42 Table 1.3-1)} \div \# 6 \text{ fuel oil heating value in mmBTU/gallon}]$

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Combusting “on spec” waste oil: $[0.147S \text{ lb/gallon (AP-42 Table 1.11-1)} \div \text{“on spec” waste oil heating value in mmBTU/gallon}]$

Combusting landfill gas: $[0.6 \text{ lb/mmcf} \div \text{the landfill gas heating value in mmBTU/mmcf}]$.

d) VOC emissions shall be calculated using the following formulas:

Combusting # 6 fuel oil: $[1.605 \text{ lb/thousand gallons} \times \text{the fuel usage rate}]$

Combusting waste oil: $[1.0 \text{ lb/thousand gallons} \times \text{the fuel usage rate}]$

Combusting landfill gas: $[11.2 \text{ lb/million cubic feet} \times \text{the fuel usage rate}]$

3. Testing Requirements:

The permittee shall determine the opacity of emissions from each stack using U.S. EPA Reference Method 9 annually, or more frequently if requested by the Division.

4. Specific Monitoring Requirements:

- a) The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a weekly basis and maintain a log of the observations. If visible emissions from the stack are seen, the permittee shall determine the opacity of emissions by U.S. EPA Reference Method 9 and instigate an inspection of the control equipment for any necessary repairs.
- b) The permittee shall monitor the sulfur and heat content of each shipment of # 6 fuel oil and waste oil received. The permittee may use approved EPA or ASTM test methods or fuel supplier certification to meet this requirement.
- c) The permittee shall monitor the amount of each fuel burned on a monthly basis.

5. Specific Recordkeeping Requirements:

- a) Records of fuel burned shall be maintained.
- b) Records of sulfur and heat content for each shipment of #6 fuel oil and waste oil shall be maintained.
- c) Records of sulfur and heat content of landfill gas as determined by appropriate test methods shall be maintained.

6. Specific Reporting Requirements:

See Section F.

7. Specific Control Equipment Operating Conditions:

NA

SECTION B - AFFECTED FACILITIES, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Unit: 03 (Emission Points 03 & 04) Rendering process

Description:

Custom designed Equipment by Griffin Industries, Inc.

Operating rating: 12.5 tons/hour

Control Equipment: Venturi Scrubber/Packed Tower Scrubber (EP 03), Room Air Scrubber (EP 04)

Construction commenced: 1983

APPLICABLE REGULATIONS:

Regulation 401 KAR 59:010, New process operations, applicable to an emissions unit that commenced on or after July 2, 1975.

Voluntary permit limits to preclude the applicability of Regulation 401 KAR 50:012. Sourcewide emissions of Volatile Organic Compounds shall not exceed 90 tons per year for any consecutive 12 month period.

1. Operating Limitations:

NA

2. Emission Limitations:

- a) Pursuant to Regulation 401 KAR 59:010, Section 3(2), particulate emissions from the stack shall not exceed $[3.59 (P)^{0.62}]$ pounds per hour based on a three-hour-average where P is the weekly average processing rate in tons per hour. Compliance with the allowable particulate standard may be demonstrated by calculating particulate emissions using rendering processing rates, emission factor information, and venturi/packed tower scrubber control efficiency as follows:

Emissions (lbs/hour) = (performance test E.F. lbs/ton) x (material throughput rate in tons/hour)

- b) Pursuant to Regulation 401 KAR 59:010, Section 3(1)(a), any continuous emissions into the open air shall not equal or exceed 20% opacity based on a six-minute-average.
- c) VOC emissions = (performance test E.F.) x (material throughput rate)

3. Testing Requirements:

- a) The permittee shall conduct a performance test for particulate matter and VOC emissions within 180 days after final permit issuance and furnish the Division with the results.
- b) The permittee shall determine the opacity of emissions from each stack using U.S. EPA Reference Method 9 annually, or more frequently if requested by the Division.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

4. Specific Monitoring Requirements:

- a) The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a weekly basis and maintain a log of the observations. If visible emissions from the stack are seen, the permittee shall determine the opacity of emissions by U.S. EPA Reference Method 9 and instigate an inspection of the control equipment for any necessary repairs.
- b) The permittee shall monitor the rendering processing rate (tons) and hours of operation on a weekly basis.

5. Specific Recordkeeping Requirements:

- a) Records of weekly rendering process and hours of operation shall be maintained. These records shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality.
- b) Records regarding the maintenance of all scrubbers shall be maintained.

6. Specific Reporting Requirements:

NA

7. Specific Control Equipment Operating Conditions:

- a) The venturi scrubber, packed tower scrubber, and room air scrubber shall be operated as necessary to maintain compliance with permitted emission limitations in accordance with manufacturer's specifications and/or standard operating practices.
- b) See Section E.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Unit: 04 (Emission Point 03) Indirect Heat Exchanger

Description:

Overfeed stoker, coal-fired unit equipped with mechanical collectors

Maximum continuous rating: 45.8 MMBTU/hour

Construction commenced: 1983

APPLICABLE REGULATIONS:

Regulation 401 KAR 59:015, New indirect heat exchangers, applicable to an emissions unit with a capacity of less than 250 mmBTU/hour which commenced on or after April 9, 1972.

Voluntary permit limits to preclude the applicability of Regulation 401 KAR 51:017. Sourcewide emissions of Sulfur Dioxide shall not exceed 225 tons per year for any consecutive 12 month period.

Voluntary permit limits to preclude the applicability of Regulation 401 KAR 50:012. Sourcewide emissions of Volatile Organic Compounds shall not exceed 90 tons per year for any consecutive 12 month period.

1. Operating Limitations:

To preclude the applicability of 401 KAR 41:017, the coal consumption of the unit shall not exceed 9,000 tons per year on a twelve-month rolling total.

To preclude the applicability of 401 KAR 41:017, sulfur content of the coal shall not exceed 1.0 percent by weight.

2. Emission Limitations:

- a) Pursuant to Regulation 401 KAR 59:015, Section 4(1)(c), particulate emissions shall not exceed 0.316 lb/MMBTU based on a three-hour-average. The permittee may assure compliance with the particulate allowable by calculating emissions using the following formula:

Combusting coal: [AP-42 Table 1.1-4 emission factor (9 lb/ton) divided by (Heating value of fuel from fuel analysis in mmBTU/ton)].

- b) Pursuant to Regulation 401 KAR 59:015, Section 4(2), emissions shall not exceed 20% opacity based on a six minute average, except that a maximum of 40% opacity, based on a six minute average, shall be permissible for not more than 6 consecutive minutes in any consecutive 60 minutes during cleaning the fire-box or blowing soot.
- c) Pursuant to Regulation 401 KAR 59:015, Section 5(1)(c), sulfur dioxide emissions shall not exceed 1.71 lb/MMBTU based on a twenty-four-hour-average. The permittee may assure compliance with the sulfur dioxide allowable by calculating emissions using the following formula:

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Combusting coal: [AP-42 Table 1.1-3 emission factor (38S lb/ton) divided by (Heating value of fuel from fuel analysis in mmBTU/ton)].

d) $\text{VOC emissions} = (0.05 \text{ lb/ton}) \times (\text{coal usage rate})$

3. Testing Requirements:

- a) The permittee shall conduct one stack test for particulate matter emissions within 180 days of final permit issuance and furnish the Division with the results.
- b) The permittee shall determine the opacity of emissions from each stack using U.S. EPA Reference Method 9 annually, or more frequently if requested by the Division.

4. Specific Monitoring Requirements:

- a) The permittee shall perform a qualitative visual observation of the opacity of emissions from the stack on a weekly basis and maintain a log of the observations. If visible emissions from the stack are seen, the permittee shall determine the opacity of emissions by U.S. EPA Reference Method 9 and instigate an inspection of the control equipment for any necessary repairs.
- b) The permittee shall monitor the sulfur content and heat content of each shipment of coal received. The permittee may use approved EPA or ASTM test methods or fuel supplier certification to meet this requirement.
- c) The permittee shall monitor the amount of fuel burned on a monthly basis.

5. Specific Recordkeeping Requirements:

- a) Records of fuel burned shall be maintained on monthly basis.
- b) Records of the coal supplier certification of sulfur content and heat content for each shipment shall be maintained.
- c) Records regarding the maintenance of the control equipment shall be maintained.

6. Specific Reporting Requirements:

See Section F.

7. Specific Control Equipment Conditions:

- a) The mechanical collectors shall be operated as necessary to maintain compliance with the permitted emission limitations, in accordance with the manufacturer's specifications and/or good engineering practices.
- b) See Section E for further requirements.

**SECTION B - AFFECTED FACILITIES, APPLICABLE REGULATIONS,
AND OPERATING CONDITIONS (CONTINUED)**

Emissions Unit: 05 (Emission Point 05) Cooling Tower

Description:

Construction commenced: August, 1987.

APPLICABLE REGULATIONS:

Regulation 401 KAR 63:010, Fugitive Emissions

Regulation 401 KAR 63:021, Existing Sources Emitting Toxic Air Pollutants

1. Operating Limitations:

Pursuant to Regulation 401 KAR 63:010, Section 3, discharge of visible fugitive emissions beyond the property line is prohibited.

2. Emission Limitations:

Pursuant to Regulation 401 KAR 63:021, ammonia emissions shall not exceed 84 pounds per hour and 96 tons per year.

3. Testing Requirements:

NA

4. Specific Monitoring Requirements:

NA

5. Specific Record Keeping Requirements:

NA

6. Specific Reporting Requirements:

NA

7. Specific Control Equipment Operating Conditions:

NA

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Unit: 06 (Emission Point 06) Raw material and blending stock unloading, storage, and loading to process feed hoppers

Description:

Operating rate: 60 tons/hour

APPLICABLE REGULATIONS:

Regulation 401 KAR 63:010, Fugitive Emissions

1. Operating Limitations:

NA

2. Emission Limitations:

- a) Pursuant to Regulation 401 KAR 63:010, Section 3, reasonable precautions shall be taken to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, when applicable, but not be limited to the installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emissions during handling.
- b) Pursuant to Regulation 401 KAR 63:010, Section 3, discharge of visible fugitive dust emissions beyond the property line is prohibited.

3. Testing Requirements:

NA

4. Monitoring Requirements:

See Section F.

5. Recordkeeping Requirements:

See Section F.

6. Reporting Requirements:

See Section F.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Unit: 07 (Emission Point 07) Close-coupled gasification (CCG) unit and product dryer

Description:

CCG unit burns mixture of sawdust and scrap packaging materials

Control Equipment: Cyclone

Maximum heat input: 22.5 mmBtu/hr

Maximum feed rate of bakery scrap to dryer: 25 tons/hr

APPLICABLE REGULATIONS:

Regulation 401 KAR 59:010, New process operations, applicable for emissions units commenced after July 2, 1975

Regulation 401 KAR 59:020, New incinerators, applicable for incinerators commenced after June 6, 1979 with a charging rate of fifty tons/day or less

Voluntary permit limits to preclude the applicability of Regulation 401 KAR 51:017. Sourcewide emissions of Sulfur Dioxide shall not exceed 225 tons per year for any consecutive 12 month period. Voluntary permit limits to preclude the applicability of Regulation 401 KAR 50:012. Sourcewide emissions of Volatile Organic Compounds shall not exceed 90 tons per year for any consecutive 12 month period.

1. Operating Limitations:

The scrap packaging consumption of the unit shall not exceed 1,500 pounds per hour.

The sawdust consumption of the unit shall not exceed 2,812 pounds per hour.

2. Emission Limitations:

a) Pursuant to Regulation 401 KAR 59:020, Section 3(2)(a), particulate matter emissions from the CCG unit shall not exceed 0.23 g/dscm corrected to twelve (12) percent carbon dioxide excluding the contribution of carbon dioxide from auxiliary fuel.

b) Pursuant to Regulation 401 KAR 59:010, particulate matter emissions from the process shall not exceed $[3.59(P)^{0.62}]$ pounds per hour based on a three hour average where P is the hourly operating rate in tons per hour.

c) Pursuant to Regulation 401 KAR 59:020, Section 3(1), visible emissions shall not exceed twenty (20) percent opacity based on a six-minute average.

d) Sulfur Dioxide emissions shall be calculated using the following formula:

$$[(3.46\text{lb/ton scrap packaging}) \text{ multiplied by the scrap packaging usage rate}] \text{ plus } [(0.025\text{lb/ton sawdust}) \text{ multiplied by the sawdust usage rate}]$$

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

- e) VOC emissions from the dryer fuel shall be calculated using the following formula:

[(0.17lb/ton dryer fuel) multiplied by the dryer fuel usage rate]

3. Testing Requirements:

- a) The permittee shall determine the opacity of emissions from each stack using US EPA Reference Method 9 annually, or more frequently if requested by the Division.

4. Monitoring Requirements:

- a) The permittee shall perform a qualitative visual observation of the opacity of emissions on a weekly basis and maintain a log of the observations. If visible emissions from any stack are seen, the permittee shall determine the opacity of emissions by Reference Method 9 and instigate an inspection of the control equipment making any necessary repairs.
- b) The permittee shall monitor amounts of yeast containing dough, bakers percent of yeast, and proof time. The permittee shall calculate and record the monthly VOC emissions due to dough drying. The VOC emissions from the rotary dryer shall be determined based on emission factors derived from the equation given in "Alternative Control Technology Documents for Bakery Oven Emissions" (EPA 453/R-92-017, December 1992):

$$\text{VOC E.F.} = 0.95Y_i + 0.195t_i + 1.90$$

Where,

VOC E.F. = Emission factor in pounds of VOC per ton of yeast containing dough processed

Y_i = Initial baker's percent of yeast to the nearest tenth of a percent

t_i = Total yeast action time in hours to the nearest tenth of an hour
(Customer proof time + Bakery Feeds proof time)

$$\text{VOC Emissions (tons/yr)} = \text{VOC E.F.} \times \text{BP} \times .0005$$

Where,

BP = Yeast containing dough processed in tons/year

- c) The permittee shall monitor the amount of scrap packaging and sawdust used in the CCG unit and the hours of operation on a daily basis.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

5. Recordkeeping Requirements:

- a) The permittee shall maintain records of yeast containing dough processed and hours of operation on a daily basis.
- b) The permittee shall maintain records of packaging scrap and sawdust used in the CCG unit and hours of operation on a daily basis.
- c) The permittee shall keep monthly records of yeast containing dough, bakers percent of yeast, and proof time. Total actual emissions for VOC's shall be calculated each month (tons per month) based upon the amount of yeast containing dough processed at the facility during the month. The permittee shall also keep records of twelve (12) month rolling total for VOC emissions. These records shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality.

6. Reporting Requirements:

See Section F.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Units: 08 (Emission Point 08) Product and blending stock mixing, size reduction, and storage

Description:

Operating rate: 46.2 tons/hour

APPLICABLE REGULATIONS:

Regulation 401 KAR 59:010, New Process Operations, applicable to emission units commenced after July 2, 1975

1. Operating Limitations:
NA

2. Emission Limitations:

- a) Pursuant to Regulation 401 KAR 59:010, Section 3(2), particulate matter into the open air shall not exceed $[17.31(P)^{0.16}]$ pounds per hour based on a three hour average where P is the hourly operating rate in tons per hour. The permittee shall assure compliance with the use of the following equation:

$$\text{Emissions (lbs/hour)} = (0.105 \text{ lbs/ton}) \times (\text{material throughput rate in tons/hour}) \times (1 - \text{control efficiency})$$

- b) Pursuant to Regulation 401 KAR 59:010, Section 3(1)(a), any continuous emissions into the open air shall not equal or exceed twenty percent opacity based on a six-minute average.

3. Testing Requirements:
NA

4. Monitoring Requirements:

The permittee shall monitor the mixing and storage rate (tons) and hours of operation on a weekly basis.

5. Recordkeeping Requirements:

Records of weekly mixing and storage process and hours of operation shall be maintained. These records shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality.

6. Reporting Requirements:
See Section F.

SECTION B - EMISSION POINTS, EMISSIONS UNITS, APPLICABLE REGULATIONS, AND OPERATING CONDITIONS (CONTINUED)

Emissions Units: 09 (Emission Point 09) Product loadout

Description:

Operating rate: 46.2 tons/hour

APPLICABLE REGULATIONS:

Regulation 401 KAR 63:010, Fugitive Emissions

Applicable Requirements:

- a) Pursuant to Regulation 401 KAR 63:010, Section 3, reasonable precautions shall be taken to prevent particulate matter from becoming airborne. Such reasonable precautions shall include, when applicable, but not be limited to the installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials, or the use of water sprays or other measures to suppress the dust emissions during handling.
- b) Pursuant to Regulation 401 KAR 63:010, Section 3, discharge of visible fugitive dust emissions beyond the property line is prohibited.

1. **Operating Limitations:**
NA

2. **Emission Limitations:**
NA

3. **Testing Requirements:**
NA

4. **Monitoring Requirements:**
See Section F.

5. **Recordkeeping Requirements:**
See Section F.

6. **Reporting Requirements:**
See Section F.

SECTION C - INSIGNIFICANT ACTIVITIES

The following listed activities have been determined to be insignificant activities for this source pursuant to 401 KAR 52:020, Section 6. While these activities are designated as insignificant the permittee must comply with the applicable regulation and some minimal level of periodic monitoring may be necessary.

<u>Description</u>	<u>Generally Applicable Regulation</u>
1. Storage vessels associated with fuel oil storage and vehicle refueling operations.	N/A
2. Storage Vessels containing inorganic aqueous liquids, and which do not include inorganic acids with boiling points below the maximum storage temperature at atmospheric temperature.	N/A
3. Laboratory fume hoods and vents used exclusively for chemical or physical analysis.	N/A
4. No.2 oil-fired space heaters rated as less than 2.0 mmBTU/hr. actual heat input	N/A
5. Degreasing operations (parts-washers used in routine maintenance) which do not exceed 145 gallons per month.	N/A
6. Wastewater treatment activities with streams containing less than 1% oil and grease content by volume.	N/A
7. Use of paved haul roads and parking lots.	401 KAR 63:010
8. Boiler and cooling tower blowdown operations.	401 KAR 63:010
9. Farming operations (harvest of hay from spray irrigation systems).	N/A
10. Routine facility maintenance.	N/A
11. Coal Handling	401 KAR 63:010

SECTION D - SOURCE EMISSION LIMITATIONS AND TESTING REQUIREMENTS

1. As required by Section 1b of the material incorporated by reference in 401 KAR 52:020, Section 10; compliance with annual emissions and processing limitations contained in this permit, shall be based on emissions and processing rates for any twelve (12) consecutive months.
2. Particulate matter, sulfur dioxide, Volatile organic compounds and visible emissions as measured by methods referenced in 401 KAR 50:015, Section 1, shall not exceed the respective limitations specified herein.
3. Sulfur dioxide emission from Emission Units 01, 02, 04, and 07 shall not exceed 225 tons per year on a twelve month rolling total to preclude 401 KAR 51:017 "Prevention of Significant Deterioration of Air Quality" applicability.
4. Consumption of #6 fuel oil shall not exceed 1,075,000 gallons per year on a twelve-month rolling total.
5. The sulfur content of #6 fuel oil shall not exceed 0.5 percent by weight.
6. Consumption of coal shall not exceed 9,000 tons per year on a twelve-month rolling total.
7. The sulfur content of the coal shall not exceed 1.0 percent by weight.
8. Consumption of scrap packaging shall not exceed 1,500 pounds per hour.
9. Consumption of sawdust shall not exceed 2,812 pounds per hour.
10. Volatile organic compounds (VOC(s)) emissions from Emission Units 01, 02, 03, 04, and 07 shall not exceed 90 tons per year on a twelve-month rolling total to preclude 401 KAR 50:012 applicability.
11. The permittee shall include Sulfur Dioxide and VOC emissions during start-up, shut-down, and malfunction in the source wide emission calculations pertaining to the Sulfur Dioxide and VOC limits.

SECTION E - SOURCE CONTROL EQUIPMENT REQUIREMENTS

Pursuant to 401 KAR 50:055, Section 2(5), at all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any emissions unit including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS

1. When continuing compliance is demonstrated by periodic testing or instrumental monitoring, the permittee shall compile records of required monitoring information that include:
 - a. Date, place as defined in this permit, and time of sampling or measurements.
 - b. Analyses performance dates;
 - c. Company or entity that performed analyses;
 - d. Analytical techniques or methods used;
 - e. Analyses results; and
 - f. Operating conditions during time of sampling or measurement[Material incorporated by reference by 401 KAR 52:020, Section 1b (IV)1].
2. Records of all required monitoring data and support information, including calibrations, maintenance records, and original strip chart recordings, and copies of all reports required by the Division for Air Quality, shall be retained by the permittee for a period of five years and shall be made available for inspection upon request by any duly authorized representative of the Division for Air Quality [Material incorporated by reference by 401 KAR 52:020, Sections 1b(IV) 2 and 1a(8)].
3. In accordance with the requirements of 401 KAR 52:020 Section 3(1)h the permittee shall allow authorized representatives of the Cabinet to perform the following during reasonable times:
 - a. Enter upon the premises to inspect any facility, equipment (including air pollution control equipment), practice, or operation;
 - b. To access and copy any records required by the permit;
 - c. Inspect, at reasonable times, any facilities, equipment (including monitoring and pollution control equipment), practices, or operations required by the permit.
 - d. Sample or monitor, at reasonable times, substances or parameters to assure compliance with the permit or any applicable requirements.
 - e. Reasonable times are defined as during all hours of operation, during normal office hours; or during an emergency.
4. No person shall obstruct, hamper, or interfere with any Cabinet employee or authorized representative while in the process of carrying out official duties. Refusal of entry or access may constitute grounds for permit revocation and assessment of civil penalties.
5. Summary reports of any monitoring required by this permit, other than continuous emission or opacity monitors, shall be submitted to the Regional Office listed on the front of this permit at least every six (6) months during the life of this permit, unless otherwise stated in this permit. For emission units that were still under construction or which had not commenced operation at the end of the 6-month period covered by the report and are subject to monitoring requirements in this permit, the report shall indicate that no monitoring was performed during the previous six months because the emission unit was not in operation [Material incorporated by reference by 401 KAR 52:020, Section 1b (V)1.].

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

6. The semi-annual reports are due by January 30th and July 30th of each year. Data from the continuous emission and opacity monitors shall be reported to the Technical Services Branch in accordance with the requirements of 401 KAR 59:005, General Provisions, Section 3(3). All reports shall be certified by a responsible official pursuant to 401 KAR 52:020 Section 23. All deviations from permit requirements shall be clearly identified in the reports.
7. In accordance with the provisions of 401 KAR 50:055, Section 1 the owner or operator shall notify the Regional Office listed on the front of this permit concerning startups, shutdowns, or malfunctions as follows:
 - a. When emissions during any planned shutdowns and ensuing startups will exceed the standards notification shall be made no later than three (3) days before the planned shutdown, or immediately following the decision to shut down, if the shutdown is due to events which could not have been foreseen three (3) days before the shutdown.
 - b. When emissions due to malfunctions, unplanned shutdowns and ensuing startups are or may be in excess of the standards, notification shall be made as promptly as possible by telephone (or other electronic media) and shall cause written notice upon request.
8. The owner or operator shall report emission related exceedances from permit requirements including those attributed to upset conditions (other than emission exceedances covered by Section F.7. above) to the Regional Office listed on the front of this permit within 30 days. Other deviations from permit requirements shall be included in the semiannual report required by Section F.6 [Material incorporated by reference by 401 KAR 52:020, Section 1b V 3, 4.].
9. Pursuant to 401 KAR 52:020, Permits, Section 21, the permittee shall certify compliance with the terms and conditions contained in this permit, by completing and returning a Compliance Certification Form (DEP 7007CC) (or an alternative approved by the regional office) to the Regional Office listed on the front of this permit and the U.S. EPA in accordance with the following requirements:
 - a. Identification of the term or condition;
 - b. Compliance status of each term or condition of the permit;
 - c. Whether compliance was continuous or intermittent;
 - d. The method used for determining the compliance status for the source, currently and over the reporting period, and
 - e. For an emissions unit that was still under construction or which has not commenced operation at the end of the 12-month period covered by the annual compliance certification, the permittee shall indicate that the unit is under construction and that compliance with any applicable requirements will be demonstrated within the timeframes specified in the permit.

SECTION F - MONITORING, RECORD KEEPING, AND REPORTING REQUIREMENTS (CONTINUED)

- f. The certification shall be postmarked by January 30th of each year. Annual compliance certifications should be mailed to the following addresses:

Division for Air Quality
Florence Regional Office
8020 Veterans Memorial Dr.
Florence, KY 41042

U.S. EPA Region 4
Air Enforcement Branch
Atlanta Federal Center
61 Forsyth St.
Atlanta, GA 30303-8960

Division for Air Quality
Central Files
803 Schenkel Lane
Frankfort, KY 40601

10. In accordance with 401 KAR 52:020, Section 22, the permittee shall provide the division with all information necessary to determine its subject emissions within thirty (30) days of the date the KYEIS emission survey is mailed to the permittee.
11. Pursuant to Section VII.3 of the policy manual of the Division for Air Quality as referenced in 401 KAR 50:016, Section 1(1), results of performance test(s) required by the permit shall be submitted to the division by the source or its representative within forty-five days after the completion of the fieldwork.

SECTION G - GENERAL PROVISIONS

(a) General Compliance Requirements

1. The permittee shall comply with all conditions of this permit. Noncompliance shall be a violation of 401 KAR 52:020 and of the Clean Air Act and is grounds for enforcement action including termination, revocation and reissuance, revision or denial of a permit [Material incorporated by reference by 401 KAR 52:020, Section 1a, 3].
2. The filing of a request by the permittee for any permit revision, revocation, reissuance, or termination, or of a notification of a planned change or anticipated noncompliance, shall not stay any permit condition [Material incorporated by reference by 401 KAR 52:020, Section 1a, 6].
3. This permit may be revised, revoked, reopened and reissued, or terminated for cause in accordance with 401 KAR 52:020, Section 19. The permit will be reopened for cause and revised accordingly under the following circumstances:
 - a) If additional requirements become applicable to the source and the remaining permit term is three (3) years or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the permit is due to expire, unless this permit or any of its terms and conditions have been extended pursuant to 401 KAR 52:020, Section 12;
 - b) The Cabinet or the U. S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements;
 - c) The Cabinet or the U. S. EPA determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit;
 - d) If any additional applicable requirements of the Acid Rain Program become applicable to the source.

Proceedings to reopen and reissue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of the permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable. Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the division, at least thirty (30) days in advance of the date the permit is to be reopened, except that the division may provide a shorter time period in the case of an emergency.

4. The permittee shall furnish information upon request by the cabinet to determine if cause exists for modifying, revoking and reissuing, or terminating the permit; or compliance with the permit [Material incorporated by reference by 401 KAR 52:020, Section 1a, 7,8].
5. The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such facts or corrected information to the permitting authority [Material incorporated by reference by 401 KAR 52:020, Section 7(1)].

SECTION G - GENERAL PROVISIONS (CONTINUED)

6. Any condition or portion of this permit which becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this permit [Material incorporated by reference by 401 KAR 52:020, Section 1a, 14].
7. The permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance [Material incorporated by reference by 401 KAR 52:020, Section 1a, 4].
8. Except for requirements identified in this permit as state-origin requirements, all terms and conditions shall be enforceable by the United States Environmental Protection Agency and citizens of the United States [Material incorporated by reference by 401 KAR 52:020, Section 1a, 15)b].
9. This permit shall be subject to suspension if the permittee fails to pay all emissions fees within 90 days after the date of notice as specified in 401 KAR 50:038, Section 3(6) [Material incorporated by reference by 401 KAR 52:020, Section 1a, 10].
10. Nothing in this permit shall alter or affect the liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance [401 KAR 52:020, Section 11(3)(b)].
11. This permit does not convey property rights or exclusive privileges [Material incorporated by reference by 401 KAR 52:020, Section 1a, 9].
12. Issuance of this permit does not relieve the permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Kentucky Cabinet for Natural Resources and Environmental Protection or any other federal, state, or local agency.
13. Nothing in this permit shall alter or affect the authority of U.S. EPA to obtain information pursuant to Federal Statute 42 USC 7414, Inspections, monitoring, and entry [401 KAR 52:020, Section 11(3)(d)].
14. Nothing in this permit shall alter or affect the authority of U.S. EPA to impose emergency orders pursuant to Federal Statute 42 USC 7603, Emergency orders [401 KAR 52:020, Section 11(3)(a)].
15. This permit consolidates the authority of any previously issued PSD, NSR, or Synthetic minor source preconstruction permit terms and conditions for various emission units and incorporates all requirements of those existing permits into one single permit for this source.
16. Pursuant to 401 KAR 52:020, Section 11, a permit shield shall not protect the owner or operator from enforcement actions for violating an applicable requirement prior to or at the time of permit issuance. Compliance with the conditions of a permit shall be considered compliance with:
 - a. Applicable requirements that are included and specifically identified in the permit and
 - b. Non-applicable requirements expressly identified in this permit.

SECTION G - GENERAL PROVISIONS (CONTINUED)

(b) Permit Expiration and Reapplication Requirements

1. This permit shall remain in effect for a fixed term of five (5) years following the original date of issue. Permit expiration shall terminate the source's right to operate unless a timely and complete renewal application has been submitted to the division at least six months prior to the expiration date of the permit. Upon a timely and complete submittal, the authorization to operate within the terms and conditions of this permit, including any permit shield, shall remain in effect beyond the expiration date, until the renewal permit is issued or denied by the division [401 KAR 52:020, Section 12].
2. The authority to operate granted shall cease to apply if the source fails to submit additional information requested by the division after the completeness determination has been made on any application, by whatever deadline the division sets [401 KAR 52:030 Section 8(2)].

(c) Permit Revisions

1. A minor permit revision procedure may be used for permit revisions involving the use of economic incentive, marketable permit, emission trading, and other similar approaches, to the extent that these minor permit revision procedures are explicitly provided for in the SIP or in applicable requirements and meet the relevant requirements of 401 KAR 52:020, Section 14(2).
2. This permit is not transferable by the permittee. Future owners and operators shall obtain a new permit from the Division for Air Quality. The new permit may be processed as an administrative amendment if no other change in this permit is necessary, and provided that a written agreement containing a specific date for transfer of permit responsibility coverage and liability between the current and new permittee has been submitted to the permitting authority within ten (10) days following the transfer.

SECTION G - GENERAL PROVISIONS (CONTINUED)

(d) Emergency Provisions

1. Pursuant to 401 KAR 52:020 Section 24(1), an emergency shall constitute an affirmative defense to an action brought for the noncompliance with the technology-based emission limitations if the permittee demonstrates through properly signed contemporaneous operating logs or relevant evidence that:
 - a. An emergency occurred and the permittee can identify the cause of the emergency;
 - b. The permitted facility was at the time being properly operated;
 - c. During an emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements in the permit; and
 - d. Pursuant to 401 KAR 52:020, 401 KAR 50:055, and KRS 224.01-400, the permittee notified the Division as promptly as possible and submitted written notice of the emergency to the Division when emission limitations are exceeded due to an emergency. The notice shall include a description of the emergency, steps taken to mitigate emissions, and corrective actions taken.
 - e. This requirement does not relieve the source from other local, state or federal notification requirements.
2. Emergency conditions listed in General Condition (f)1 above are in addition to any emergency or upset provision(s) contained in an applicable requirement [401 KAR 52:020, Section 24(3)].
3. In an enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof [401 KAR 52:020, Section 24(2)].

(e) Risk Management Provisions

1. The permittee shall comply with all applicable requirements of 401 KAR Chapter 68, Chemical Accident Prevention, which incorporates by reference 40 CFR Part 68, Risk Management Plan provisions. If required, the permittee shall comply with the Risk Management Program and submit a Risk Management Plan to:

RMP Reporting Center
P.O. Box 3346
Merrifield, VA, 22116-3346

2. If requested, submit additional relevant information to the division or the U.S. EPA.

(f) Ozone depleting substances

1. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B:
 - a. Persons opening appliances for maintenance, service, repair, or disposal shall comply with the required practices contained in 40 CFR 82.156.

SECTION G - GENERAL PROVISIONS (CONTINUED)

- b. Equipment used during the maintenance, service, repair, or disposal of appliances shall comply with the standards for recycling and recovery equipment contained in 40 CFR 82.158.
 - c. Persons performing maintenance, service, repair, or disposal of appliances shall be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - d. Persons disposing of small appliances, MVACs, and MVAC-like appliances (as defined at 40 CFR 82.152) shall comply with the recordkeeping requirements pursuant to 40 CFR 82.166
 - e. Persons owning commercial or industrial process refrigeration equipment shall comply with the leak repair requirements pursuant to 40 CFR 82.156.
 - f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant shall keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
2. If the permittee performs service on motor (fleet) vehicle air conditioners containing ozone-depleting substances, the source shall comply with all applicable requirements as specified in 40 CFR 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.